

19980801.ba v02_n148.bam.980801 v02_n149.bam.980801

>From ???@??? Sat Aug 01 10:59:05 1998
Message-Id: <199808010504.AAA04386@sco.theporch.com>
Date: Sat, 1 Aug 1998 00:00:01 CDT
Subject: BOATANCHORS digest 2148

BOATANCHORS Digest 2148

Topics covered in this issue include:

- 1) FS BC221-Q
by FRANKK6NL@aol.com
- 2) 4CX250 vs 4CX300 tubes
by Roy Nollkamper <royn@glacierelectric.com>
- 3) RE: A mystery tube? Please identify
by "Roy S. Morgan" <roy.morgan@nist.gov>
- 4) RE: A mystery tube? Please identify
by William Donzelli <william@ans.net>
- 5) BC-348 audio distortion
by PLT1032@aol.com
- 6) Re: Atalnta Driving Rules.....
by Bill Hawkins <bill@iaxs.net>
- 7) HEAVY DUTY AC POWER CT QUESTION
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 8) HEAVY DUTY BA AC POWER QUESTION
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 9) HEAVY DUTY BA AC POWER CT.
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 10) Re AR88-LF
by philip mccooy <dgnova@erols.com>
- 11) Ameco AC-1 on the Air
by "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
- 12) Re: HEAVY DUTY BA AC POWER QUESTION
by ail0@lehigh.edu (ARTHUR I. LARKY)
- 13) Re: HEAVY DUTY BA AC POWER QUESTION
by Pete Smith <n4zr@contesting.com>
- 14) OOPS!
by Tom Norris <badger@telalink.net>
- 15) AMANA HAMFEST
by Allan Culbert <Allan-Culbert@uiowa.edu>
- 16) Driving in Atlanta
by "Allan D. Fritsche" <fritsche@email.msn.com>
- 17) Re: Hickock 539C tube tester
by George Sieverson <k9gdt@starnetusa.net>
- 18) Off Base But Funny
by Jderm740@aol.com
- 19) Re: Ozarkas

- by Jderm740@aol.com
- 20) parting out NC-300
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 21) ARC-4 worth?
by Tom Norris <badger@telalink.net>
- 22) Re: Fading Tektronix 310 cap
by "Arden Allen" <gumbear@pacbell.net>
- 23) 3-wire branch circuits (AKA HEAVY DUTY AC POWER)
by eaj@hiwaay.net

From: FRANKK6NL@aol.com
Message-ID: <62f39b36.35c1d2e8@aol.com>
Date: Fri, 31 Jul 1998 10:21:26 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: FS BC221-Q
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Frequency Meter BC221-Q. With Calibration Book and regulated power supply for it. Condition is very good . Priced at 75\$ plus shipping.

Frank, K6NL

Date: Fri, 31 Jul 1998 08:26:26 -0600
Message-Id: <199807311426.IAA24903@mothra.hi-line.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Roy Nollkamper <royn@glacierelectric.com>
Subject: 4CX250 vs 4CX300 tubes

Good morning tube addicts:

Could someone let me know the difference in the 4CX250 and the 4CX300 ceramic tubes? I have two PA decks from General Electric, one appearing to be VHF while the other probably is UHF spectrum. The UHF uses the 300 and the VHF uses the 250. Are they only different by frequency response? Any chance of interchangeability, or does anyone out there have some 4CX300's reasonable?

Also, am looking for complete faceplate for Johnson Ranger. Someone put a great looking meter in an ugly hole on the left side of my Ranger. I would like to restore to original. Finally, am looking for book, copy OK, on my

Globe Scout.

Thanks from beautiful Montana. Roy, K7JAQ

Message-Id: <01BDBC72.B1268FF0.roy.morgan@nist.gov>
From: "Roy S. Morgan" <roy.morgan@nist.gov>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: A mystery tube? Please identify
Date: Fri, 31 Jul 1998 11:02:19 -0400

I wonder if it is a CG-845 with the "5" missing???

----Roy Morgan
Hydrodynamics/Hydroacoustics Technology Center
Naval Surface Warfare Center, Carderock Division
9500 MacArthur Boulevard
West Bethesda, MD 20817-5700
301-227-3827 FAX: 301-227-3884----

-----Original Message-----
From: William Donzelli [SMTP:william@ans.net]
Sent: Thursday, July 30, 1998 11:22 PM
To: Old Tube Radios
Subject: Re: A mystery tube? Please identify

> It is a triode. Tipped top.
> Brass base. Short pins.
> Total height = 7 3/4 inches.
> Cylindrical.

What kind of bulb is it? S-shape? Tubular?

> "MADE FOR
> NAVY DEPT. (BU. ENG.)
> BY G.E. CO. U.S.
> SERIAL NO.
> C 231"

Produced in the late 1920s, but no later than 1932. If it were an earlier type, it would be for BuSE (Bu. of Steam Engineering). Being an old style type number, the tube is most likely pre-1932 (the time of the big Navy type number change)..

> "TYPE C(L?)-84

> OUPUT ?? WATTS
> FILAMENT 10V. 3.25A.
> PLATE 1000 VOLTS"

The character after the C is most likely a G. CG is General Electric's supplier code.

The only matches I could come up with is the CG-1144A (standard 203A) or CG-1984 (standard 211). 7 3/4" seems kind of short for either of these types, but they both sort of match the specs, and contain "4"s.

William Donzelli
william@ans.net

Date: Fri, 31 Jul 1998 11:06:38 -0400 (EDT)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: A mystery tube? Please identify
Message-Id: <Pine.GS0.3.96.980731110532.17106I-100000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> I wonder if it is a CG-845 with the "5" missing???

Possibly, but by the time the U.S. Navy was "properly" naming tubes like the rest of the world, BuEng was gone.

William Donzelli
william@ans.net

From: PLT1032@aol.com
Message-ID: <60dce274.35c1ed75@aol.com>
Date: Fri, 31 Jul 1998 12:14:43 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: BC-348 audio distortion
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I've got a unit here that distorts audio output after about 3/4 volume. Any tips out there?

Bob Lindgren

Date: Fri, 31 Jul 1998 12:55:37 -0500 (CDT)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199807311755.MAA24905@citrus.iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Atalnta Driving Rules.....

Sounds like an anthill in plus 100 degree heat.

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Fri, 31 Jul 1998 13:58:35 -0400 (EDT)
Subject: HEAVY DUTY AC POWER CT QUESTION
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9807311358.aa05740@pcusa01.ecunet.org>

To: boatanchors@theporch.com

> It's pretty easy to snap out the two breakers and put in a 20A 220V
> one. Or, just shuffle things so that they are adjacent, and put a
> 6-32 bolt through the two breaker handle holes.

I will put in a double breaker.

> What I don't know is if it is code to split the wiring for the two
> phases of a 220V circuit among two cables.

Actually the two 110 v cts (which are fed from opposite branches so
there's 220 v across them) arrive in one conduit.

> it would be illegal to have 110V loads on that 220V circuit. Is there a
> third circuit for 110V, like your RX?

Why? With a double breaker there would be the same degree of protection as
if each 110 v ct had its own separate breaker.

In fact, *all* the 110 v cts in our houses is derived from the pair of 110
v branches. 220 v is just available from bridging both of them with a 220
v load.

No, there is no extra 110 v ct, other equipment would be powered from
both of the two 110 v cts.

Is there something that I'm not seeing here, I want to be **very** sure.

I trust the members of this group implicitly!

-John Sehring (11:28 am Mon, Jul 31, 1989 at Custer, SD USA) ucc wb2eqg

-John Sehring (11:34 am Mon, Jul 31, 1989 at Custer, SD USA) ucc wb2eqg

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Fri, 31 Jul 1998 13:58:35 -0400 (EDT)
Subject: HEAVY DUTY BA AC POWER QUESTION
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9807311358.aa05750@pcusa01.ecunet.org>

To: boatanchors@theporch.com

> I can't find my latest copy of the electrical code, but I doubt if they
> would permit 220 and 110 loads on the same breaker set.

I wonder why? There seems to be absolute protection from the double
breakers simultaneously opening both hot sides.

> Also, the two neutral wires (not grounds) may not be equivalent, so
> which one do you use?

But that's exactly the way our houses are fed, by three wires, two hot
branches (110 v to ground each, 220 across them) and one neutral.

Point: All three wires are of the same size!

This is ok because the neutral currents from both 110 v branches flows in
opposite directions as the two branches are oppositely phased, i.e. 180
degree phase difference. As a result, if both branches are exactly
balanced, i.e. have equal 110 v loads (hardly every happens in real life),
the net flow in the neutral lead would be zero!

The two 110 branch circuits (which arrive in the same piece of conduit) in
my workroom were wired the same way, two hot leads and only one neutral.
(All three wires are of the same gauge.) The common neutral is what tipped
my off in the 1st place that these two 110 v circuits were fed from
opposite branches.

> I found that when I tried to put a ground-fault-interrupter in a circuit
> and it kept tripping because the outlets were sharing the hot line, but
> the one neutral was a longer path than the other. Not really different,
> just longer.

I'm not exactly sure about what's being described here.

> I have a friend who is very up-to-date on these things because he takes
> regular refresher courses and I could ask him next time I see him.

Yes, please!

Dunno about the code, but I do know something about Edison connections and ground fault interrupters. A 220 volt breaker is two 110 volt units joined at the handle so that both trip if one trips. This safely removes the energy from ALL loads on the circuit. Loss of some of the 110 volt loads may be an inconvenience, but it isn't a hazard.

> The Edison connection has one neutral and two hot wires, as John
> described. If there are two 100 watt, 110 volt bulbs, one from each of
> the hot wires to the neutral, there is 1 amp flowing in each hot wire,
> and NO current (well, hardly any) flowing in the neutral. Worst case
> current for the neutral is for no current in one of the hot leads.
> Electricians like it because they only have to pull 3 #12 wires, not 4.

Yep.

> But you can't use a common GFCI unit [breaker] on each hot lead to
> supply several plain outlets, because the current through the GFCI is
> not balanced. You can use individual GFCI outlets, though. That's what I
> learned from rewiring my kitchen.

That's good to know.

> Just a small thread on the 220 volt situation. The code is clear on
> this. You must open all ungrounded legs of a circuit when opening or
> tripping the circuit.

Ok, a double breaker will do it.

> If you don't want to buy a double pole CB most of the manufacturers
> sell simple breaker ties that go between two single pole breakers to
> trip them at the same time. Obviously they must be mounted adjacent on
> your panel. You will find that on most all of the panels The two hots

> are alternated on each side so this is very easy to do.

Will check that out too.

Thank you all so much for many good suggestions, what a cyber-bunch!

-John Sehring (11:42 am Mon, Jul 31, 1989 at Custer, SD USA) ucc wb2eqg

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Fri, 31 Jul 1998 13:58:34 -0400 (EDT)
Subject: HEAVY DUTY BA AC POWER CT.
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9807311358.aa05729@pcusa01.ecunet.org>

To: rtg@ee.duke.edu

> Just saw your second post and one reply. Please put in a double breaker
> if you use the present wiring. Code requires the 240 V service to be in
> one cable, but that is not a big worry. You do want to be certain that
> everything in the box is cold when you or someone else trips the
> breaker. That is where the double breaker does the job so well.
> Presumably there will be no other big drain on either 110 V circuit when
> the HXL-1 is on.

Both 110 v circuits (from opposite branches) to workroom arrive in one
conduit. Yes, I will be powering 110 v stuff off of both branches too as
those are the only 110 v cts. in that room.

With double (ganged) breakers, I don't (right now!) see any safety hazard,
do you?

-John Sehring (11:25 am Mon, Jul 31, 1989 at Custer, SD USA) ucc wb2eqg

Message-Id: <199807311809.0AA10304@smtp3.erols.com>
Date: Fri, 31 Jul 98 14:06:55 -0700
From: philip mccooy <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re AR88-LF
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii

In addition to the postings earlier, I believe the AR-88LF

has an IF of about 732kc. I think the frequency range is 75kc to 550kc then 1.5mc to about 32mc. Someone else can tell you more exactly though.

Message-ID: <21B46CBD022AD1118F0500805F15A068A80224@STPMSX05.stp.guidant.com>
From: "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Ameco AC-1 on the Air
Date: Fri, 31 Jul 1998 13:33:56 -0500
MIME-Version: 1.0
Content-Type: text/plain

I received my new crystals last week and put the Ameco AC-1 on 40 meters last night. It works great! I can't believe it. I made two cw contacts on the qrp freq 7040 Khz with Nebraska and Michigan and received a 569 and a 559. It ran about 5 watts output. The tone was reported to be good, some key click though.

Not bad for a peanut whistle that is 30 some years old. Heck, not bad for a transmitter that consists of two tubes and maybe 9 parts.

73,

Scott WA9WFA in Saint Paul Minn

Message-Id: <199807312004.QAA17914@ns5-1.CC.Lehigh.EDU>
Date: Fri, 31 Jul 1998 16:03:47 EDT
From: ail0@lehigh.edu (ARTHUR I. LARKY)
Subject: Re: HEAVY DUTY BA AC POWER QUESTION
To: Old Tube Radios <boatanchors@theporch.com>

John,

Normally a single GFI can be used to protect a limited string of outlets by putting it into the first one and feeding the rest of the string by its output. When I tried that in my garage I discovered that the hot wire from the GFI'ed outlet went on to the rest of the string, but the cold wire to the next two outlets came from different directions. This was enough unbalance to trip the GFI.

If, as I think you describe, you only have 3 wires into your workroom, you must gang the breakers either by buying a gang-er or by replacing the breakers. As I said, I don't know the code well enough to know if you are permitted to do what you want, but I would suggest strongly that you replace your 110 outlets with GFI outlets and live to a ripe old age.

Art K3HBA

Message-Id: <3.0.1.32.19980731163607.006d428c@popd.ix.netcom.com>
Date: Fri, 31 Jul 1998 16:36:07 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Pete Smith <n4zr@contesting.com>
Subject: Re: HEAVY DUTY BA AC POWER QUESTION
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 04:03 PM 7/31/98 EDT, ARTHUR I. LARKY wrote:

>John,
> Normally a single GFI can be used to protect a limited string of outlets by
> putting it into the first one and feeding the rest of the string by its
> output. When I tried that in my garage I discovered that the hot wire from
> the GFI'ed outlet went on to the rest of the string, but the cold wire to
> the next two outlets came from different directions. This was enough
> unbalance to trip the GFI.
> If, as I think you describe, you only have 3 wires into your workroom, you
> must gang the breakers either by buying a gang-er or by replacing the
> breakers. As I said, I don't know the code well enough to know if you are
> permitted to do what you want, but I would suggest strongly that you
replace
> your 110 outlets with GFI outlets and live to a ripe old age.

Or just fish a separate run of 3x#12 (+ ground) through the conduit, so
that you KNOW what's in the 220 circuit.

73, Pete Smith N4ZR
In wild, wonderful, fairly rare WEST Virginia

Message-Id: <3.0.5.32.19980731154819.00b5d5f0@mail1.telalink.net>
Date: Fri, 31 Jul 1998 15:48:19 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Tom Norris <badger@telalink.net>
Subject: OOPS!
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Not sure how BA got on the distribution list of that stupid posting.

Sorry folks, and especially SORRY JACK! I didnt do it on purpose.

(slinking into the penalty box.....)

Tom

Message-Id: <3.0.1.16.19980731160114.46af87f8@blue.weeg.uiowa.edu>
Date: Fri, 31 Jul 1998 16:01:14
To: Old Tube Radios <boatanchors@theporch.com>
From: Allan Culbert <Allan-Culbert@uiowa.edu>
Subject: AMANA HAMFEST
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

To those of you in the Midwest, I would like to invite you to the Hamfest to be held Sunday, August 9, 1998 at the Amana, Iowa Convention Center. This event is sponsored by the Cedar Valley Amateur Radio Club (Cedar Rapids, IA) and usually has a good representation of BA equipment and Collins parts.

I know that material from two local estates will be there.

Large open flea market area (no charge for flea market spaces). \$5 general admission with \$2,000 worth of door prizes.

VE session in the morning, no pre registration required.

ICOM "Fun mobile" to be there.

Air conditioned exhibit hall.

Lunch available on site with free coffee.

On site camping available and plenty of motels in the area.

Talk in on the W0GQ repeater 146.745 -

73 and CU there

Al, K0AL

Message-ID: <003901bdbcc7\$c8463500\$cdf5fed0@default>
From: "Allan D. Fritsche" <fritsche@email.msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Driving in Atlanta

Date: Fri, 31 Jul 1998 16:10:35 -0500

Hey Tom, Same applies to Houston, Texas.... Except we have more road kill gangs ...BANG,BANG,BANG.... Its all over...

Now back to the subject of BA's
73's
Al
KD5CML
fritsche@msn.com

Message-ID: <35C24284.9F187145@starnetusa.net>
Date: Fri, 31 Jul 1998 17:17:40 -0500
From: George Sieverson <k9gdt@starnetusa.net>
MIME-Version: 1.0
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Hickock 539C tube tester
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
To: Old Tube Radios <boatanchors@theporch.com>

Greetings Larry and fellow bulbophiles,

Just my \$0.02 worth....

One of my tube testers is a 539B. It's a fine lab grade instrument and my first choice whenever I need to check thermionic emmissive devices.

I don't know how it compares to the highly regarded TV7 military tester. Perhaps someone more knowledgeable can step up to the podium and enlighten us.

73 'n cheers 'n beers,
George

George Sieverson (Amateur Radio - K9GDT)
E-mail: k9gdt@starnetusa.net
Web Page: <http://pwp.starnetinc.com/k9gdt/index.htm>
(Radio Page - Humor, BA's & Homebrew only)

Larry Bearse wrote:

> Hi, I have a chance to pick up a cool looking Hickock 539C tester. It looks
> like it will blow away my Heath or Knight testers. Anybody using one of
> these?
>Larry
>

--

From: Jderm740@aol.com
Message-ID: <504e2607.35c24a88@aol.com>
Date: Fri, 31 Jul 1998 18:51:51 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Off Base But Funny
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Where am I?

A helicopter was flying around above Seattle yesterday when an electrical malfunction disabled all of aircraft's electronic navigation and communication equipment. Due to the clouds and haze the pilot could not determine his position or course to steer to the airport.

The pilot saw a tall building, flew toward it, circled, drew a handwritten sign and held it in the helicopter's window.

The sign said "WHERE AM I"? in large letters.

People in the tall building quickly responded to the aircraft, drew a large sign and held it in a building window. The sign said, "YOU ARE IN A HELICOPTER".

The pilot smiled, waved, looked at his map and determined the course to steer to SEATAC (Seattle/Tacoma) airport and landed safely.

After they were on the ground, the co-pilot asked the pilot how the "YOU ARE IN A HELICOPTER" sign helped determine their position. The pilot responded, "I knew that had to be the Microsoft building because they gave me a technically correct but completely useless answer".

Jack

From: Jderm740@aol.com
Message-ID: <124ca0ba.35c24dfb@aol.com>
Date: Fri, 31 Jul 1998 19:06:34 EDT
To: Old Tube Radios <boatanchors@theporch.com>

Cc: chillout@usa.net
Mime-Version: 1.0
Subject: Re: Ozarkas
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Bill M. and all

The Oct. 1995 issue of ARC has an article about the Ozarka radio company. It also lists further references.
If you can't find a copy I'll copy mine and send it to you.

Jack

Mime-Version: 1.0
Date: Fri, 31 Jul 1998 18:27:29 -0700
Message-ID: <0010F051.1914@svlima.sv.sc.philips.com>
From: Brian.Harris@sv.sc.philips.com (Brian Harris)
Subject: parting out NC-300
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

title says it

already gone are the bare front panel, small round plastic knobs and frequency drum.

all else is available, including cabinet (minus stainless steel trim strips) and good s-meter.

Message-Id: <3.0.5.32.19980731204725.008ae320@mail1.telalink.net>
Date: Fri, 31 Jul 1998 20:47:25 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Tom Norris <badger@telalink.net>
Subject: ARC-4 worth?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Have run across a couple of these lately in various places. What are they worth so I can make the folks an offer? Scrap?

Tom

Message-Id: <199808010315.UAA23054@mail-gw2.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fading Tektronix 310 cap
Date: Fri, 31 Jul 1998 20:16:59 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Bill & all;

>Measured the following data:
>
> C D
> Cold .00156 .085
> Hot .00236 .34
>
> That looked pretty bad, so I tried a HiPot test as well. Got 30 megohms
> at 500 volts cold, easily got down below 1 megohm with the hair dryer.
>

Sounds like the same problem I had with a 503 many years ago. I replaced the "Black Ugly" (a registered trademark of BA) with a 3 KV ceramic buffer cap that worked fine until I ran accross a 1 KV molded mica transmitting style that I replaced the ceramic with because the ceramic would run a little warm. Some time later I acquired another 503 and much to my surprise it had a similar mica cap installed originally at the factory! Seems Tektronix learned their lesson finally. A 630 volt polypropylene or polycarbonate capacitor would likely be an OK replacement, at least until you could find one of them micas.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

From: eaj@hiwaay.net
Message-ID: <35C2A654.68C0@hiwaay.net>
Date: Fri, 31 Jul 1998 22:23:32 -0700
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: 3-wire branch circuits (AKA HEAVY DUTY AC POWER)
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John and Al: Am I the only actual electrician on this list?! Not only is what John's wanting to do not illegal, my 15th edition of Practical

Electrical Wiring (an industry standard, in this case based on the 1990 National Electrical Code) has four pages of instructions on how to do it, and the advantages thereof!

GFI's ARE tricky - if you're going barefoot on a wet concrete floor, you might want to try one in each 110v leg - but don't be surprised if you need a separate ground to get them to stay in. I have none in my shop (which has a concrete floor, often wet . . .), have never needed any, and hate them with a passion. I just exercise due caution: I put down a dry rubber mat, if I'm dealing with something "extreme" - which is apparently relative to the experience of the technician - I use a "circuit buzzer" to make sure what I'm working on is "cold", or, when swapping light switches (usually done "hot"), make sure I'm not grounded, and use insulated tools.

Incidentally, about half the time when I'm called on to fix the service coming to the house, I have to do so without turning the transformer off (there may be up to nine houses on it)- overloaded connector, maybe, tree downs the tri-plex and the city is too busy to get to it (typical post-tornado scenario), etc. I have a pair of 3kv rubber gloves (they fit over leather liners) for such endeavors, and a clip-on pig-tail to get power for working, while the house is disconnected.

I've been doing this for 25 years, and have never been seriously shocked (humorously, sometimes, but not seriously) possibly because of a motto I picked up somewhere: There are OLD electricians, and there are BOLD electricians; but there are NO old AND bold electricians . . .

BTW, I get along very well with the city inspectors and electricians - they know how we have to work, and co-operate with only helpful comment.

N4TGC Eric

End of BOATANCHORS Digest 2148

>From ???@??? Sun Aug 02 03:30:53 1998
Message-Id: <199808020153.UAA14807@sco.theporch.com>
Date: Sat, 1 Aug 1998 20:51:55 CDT
Subject: BOATANCHORS digest 2149

BOATANCHORS Digest 2149

Topics covered in this issue include:

- 1) paperwork for 250-33-1 or 2audio amp
by k5jv@vonl.com (Lon W. Cottingham)
- 2) resistor tube
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 3) RE: Heavy Duty AC Power.

- by Jderm740@aol.com
- 4) WTB: Heathkit Manual Copies
by George Humphrey <gah@koyote.com>
 - 5) Power to the BA's!
by "Paul Bernhard Sr." <w2tu@email.msn.com>
 - 6) Trade Hallicrafters S-36a
by "Mary Faria" <mfaria@mail.utexas.edu>
 - 7) Liquidation Sale of Private Collection
by Sandra L Knepper <slkst29+@pitt.edu>
 - 8) 5 pin coil winding convention
by john <johnmb@mindspring.com>
 - 9) ADMINISTRIVIA: Buying and Selling Guidelines
by listown@jackatak.theporch.com (Mail List Owner)
 - 10) FS: Hallicrafters SW-500 in poor condition
by tbryan@nova.org
 - 11) BC-1004 name plate
by k5jv@vonl.com (Lon W. Cottingham)
 - 12) Need CE-200v info
by Phil Mills <pmills@a.crl.com>
 - 13) Need HRO (?) info
by Phil Mills <pmills@a.crl.com>
 - 14) Austin, TX hamfest report
by Phil Mills <pmills@a.crl.com>
 - 15) FS: Vacuum Var. caps
by "Chuck O'Neal" <coneal@ultranet.com>
 - 16) Vac Cap Specs? How to test?
by Mike <ac5p@ionet.net>
 - 17) FS Hickock Traceometer /RCA Channalyst (Livermore/Foothill swaps PU only)
by "Jim Carrington" <jcall@sirius.com>
 - 18) Re: HEAVY-DUTY BA AC POWER CIRCUIT QUESTION
by "Roberta J. Barmore" <rbarmore@indy.net>
 - 19) UNID exciter
by cswiger <cswiger@wilma.widomaker.com>
 - 20) Looking for nice Drake SPR-4
by "Lane C. Zeitler" <km3g@cts.com>
 - 21) RBO info needed
by Jack Antonio <dia@dia.reno.nv.us>
 - 22) Wanted Manual
by John Wright <dxer@fl.net.au>
 - 23) Re: UNID exciter
by Steve Rohrer <srohrer@mindspring.com>
 - 24) Transformer Repair?
by Dick Dillman <ddillman@igc.apc.org>

Message-ID: <00fa01bdbd29\$8d5f8c40\$690adfd0@k5jv.kingwoodcable.com>
From: k5jv@vonl.com (Lon W. Cottingham)
To: Old Tube Radios <boatanchors@theporch.com>

Subject: paperwork for 250-33-1 or 2audio amp
Date: Sat, 1 Aug 1998 03:51:03 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings to all,

I am in need of the manual for the E. F. Johnson 250-33-1 or 250-33-2 audio driver/amplifier. Will pay cash for original or good quality copy. Will consider trading a perfect E. F. Johnson Catalog No. 957 (very nice color).

73 de Lon Cottingham, K5JV

Mime-Version: 1.0
Date: Sat, 1 Aug 1998 09:16:06 -0700
Message-ID: <0010F63F.1914@svlima.sv.sc.philips.com>
From: Brian.Harris@sv.sc.philips.com (Brian Harris)
Subject: resistor tube
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

While going through a recent acquisition of dusty tubes, etc., I discovered a NIB 'Resistor Tube' by Clarostat. Its metal can has an octal base. The part number is 6092 A. Hand written on the box is this, "This tube will drop voltage from 60 to 92 Volts". Guessing this is a ballast tube, I would like to find its V/I curve.

Thanks and 73,

Brian WA5UEK

From: Jderm740@aol.com
Message-ID: <f8dce049.35c3259a@aol.com>
Date: Sat, 1 Aug 1998 10:26:33 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Cc: JOHN_SEHRING.parti@ecunet.org
Mime-Version: 1.0
Subject: RE: Heavy Duty AC Power.
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

John

I have been reading many posts about your power distribution in your workshop and would like to offer some ideas. It seems that you have a system similar to what I have in my kitchen. A 220v feed split into two 110v pairs of outlets in the same box.

It was suggested to me by a city inspector, who should know. Each pair has it's own breaker so you are never without power to everything. If you install a 220v breaker, if one side goes, everything goes. Now let me make a suggestion.

Extend from your outlet box to a single unit breaker box and then to a 220v A/C outlet to plug in the Hammer'. You will need the following items:

- 1) A single unit breaker and box with a lower rateing than what is in your main box.(if the Hammer draws less than what your supply is rated for, if not lower, stop reading here because the idea won't work.)
- 2) A single box with a 220v A/C outlet and plug.
- 3) Some lengths of threaded pipe (short) with nuts. See your local hardware or elec supply store.
- 4) Some lengths of colored wire (Red, White and Black).

Attach the new parts after the present installation and takeing the wire attach the red to one side, the black to the other and extend the white all to the new breaker.

Then from the breaker to the A/C outlet.

Now if there is a fault in the Hammer, that breaker will blow but the rest of the system will still be operational.

Just remember THE NEW BREAKER MUST BE LESS THAN THE MAIN. If the main is 20amp the new one must be 15amp.

If none of this is workable then you should run in a seperate 220v line from the main box.

Jack

Message-Id: <3.0.5.32.19980801093535.007aac10@mail.koyote.com>

Date: Sat, 01 Aug 1998 09:35:35 -0500

To: Old Tube Radios <boatanchors@theporch.com>

From: George Humphrey <gah@koyote.com>

Subject: WTB: Heathkit Manual Copies

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

BAers,

I just procured a set of Heathkit Monitor Scopes and would like copies of the manuals. No need for originals. The scopes are the SB-610 and SB-620. All costs cheerfully paid.

73s George KC5WBV
gah@koyote.com

Message-ID: <00e001bdbd5f\$78d045e0\$c2782599@default>
From: "Paul Bernhard Sr." <w2tu@email.msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Power to the BA's!
Date: Sat, 1 Aug 1998 11:17:16 -0400

I can't believe the "only electrician" on the net here uses a how-to-do-it manual based on the 1990 NEC. As of this fall there will have been 3 revisions with major changes in both residential and commercial requirements! Also, at least here in New York, the service drop (wires from the pole to the house ahead of the meter) is the responsibility of the power company not the residential electrician. If I was a neighbor I don't think I would want him messing around with the distribution lines when his screw-up could put me out of business too!

Also, please Eric, don't put the rubber gloves on the outside! The rubber is the insulation and is meant to be the liner. The leather covering is to protect the rubber against any abrasion.

For all BA-ers, just look at your power (120-240) as the same as the center tapped transformer in your rig. That's all it is. A 240 volt winding center tapped to provide 120 either side. Use ohm's law to represent your various loads as resistors across the windings and you will easily see how it performs. It isn't any black box. Hope this helps.

Paul B. W2TU

w2tu@msn.com

From: "Mary Faria" <mfaria@mail.utexas.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Trade Hallicrafters S-36a
Date: Sat, 1 Aug 1998 10:13:15 -0500
Message-ID: <01bdbd5e\$e8950e20\$LocalHost@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi yall, named hr is Dave and I picked up a Hallicrafters S-36a at the Ham Fest this morning. Well, got it home thought more abt it and decided I don't want it. It's a neat looking radio. What I want to do is trade it for a spectrum analyzer with a 455kc input for my r-390. Anybody got anything they want to trade? I'm looking for a Nims Clark that normally accepts a 500khz input. I can retune it to 455. It's abt the size of a shoe box with a black face. I will discuss other spectrum analyzers. Thanks Dave

Date: Sat, 1 Aug 1998 11:51:37 -0400 (EDT)
From: Sandra L Knepper <slkst29+@pitt.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Liquidation Sale of Private Collection
Message-ID: <Pine.GS0.3.96L.980801114102.29207H-100000@unixs4.cis.pitt.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hallicrafter SR-2000 with power supply
Hallicrafter SX-100
Hallicrafter HT-32B
Hallicrafter SX-101 Mark II and R46 speaker
National HRO-5 with matching speaker (all coils, LF, HF)a
National HRO-60 with matching speaker - original and like new
National NC-303 with speaker and VHF converters/case and calibrator
National NCL-2000
Viking Ranger 1 and II with all new front panels
Heathkit SB-101 with power supply and matching speakers - 2 units
Heathkit SB-303 with expanded boards
Heathkit SB 401
Johnson KW Matchbox with meter (new)

Manuals included, Prefer pickup only - Would like to sell the entire collection rather than split it up. Price will be E-mailed to interested parties only. Those who have seen my collection of radio equipment can attest to its quality.

Dave, W3ST
Publisher of the Collins Journal
Homepage: <http://www.pixi.com/~jenkins/collins>

Message-Id: <199808011611.MAA17773@camel7.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 01 Aug 1998 12:09:17 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@mindspring.com>
Subject: 5 pin coil winding convention

I'm reaching the stage of my transmitter rebuild where I need to rewire the oscillator coil socket...the wiring there is a nightmare (beware of wiring with scotch tape added for dielectric strength!)....

My question, is there any convention on wiring those coil forms?
Anyone there with some Bud or other coil forms that could indicate
the convention?

There are two widely spaced symmetrical pins
two more narrowly spaced pins
and the 5th "index" pin.

Which windings go where? I know it doesnt matter electrically
but if there IS a convention I'd like to wire the socket appropriately
while I've got the chance..

Thanks one and all
/John

```
+-----+
|Wanted:      Millen exciter 90801/similar      |
|              AWA-OTB back issues...          |
|AMI #24      Millen supply(90281)amp (90881) |
+-----+
```

Message-Id: <199808011615.LAA24839@jackatak.theporch.com>
From: listown@jackatak.theporch.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Buying and Selling Guidelines
Date: Sat, 1 Aug 98 11:15:00 CDT

Gang-

This periodic posting is intended as a gentle nudge and suggestion
which should improve the quality of posts to the BoatAnchors list, and
maintain our excellent (and high) signal to noise ratio...

The list culture has developed to include "for sale" and "wanted"
posts. Originally, all buying and selling traffic was focused on
finding parts to complete a restoration. As the list has evolved,
there has been an increase in buying and selling activity, which
may not be all bad.

There is, however, a real need to observe certain conventions, lest
this otherwise benign activity turn into a real disturbance to the
real purpose of the list: discussions of radio equipment using
vaccuum tubes, including the life and times of the designers and
users of such gear.

Please observe these guidelines:

- 1) LIMIT the frequency of for sale postings... once a month is a
good starting point

- 2) DO NOT post endless "xxx is sold" to the entire list... you offered it for sale, and it is not considerate of list resources (which include the time and energy of the other list members) to burden the list with these senseless notices. Use direct email to those who responded, or, if you don't want to answer them personally, just don't use the list to advertise them for sale!
- 3) AVOID even the mere faint appearance that you are posting items for sale as a regular adjunct to your business dealings. This has become more of a problem lately with some long lists showing up regularly on the main list, or with dealers who appear to be using the list for their personal advertising advantage. Failure to observe these basics *will* result in banishment from the list -- just don't do it! When even a shadow of doubt creeps in, read the "Welcome" message again... it spells it out!
- 4) DO be considerate of those on the list in your for sale or wanted postings. Keep them short, infrequent, and ONLY include items specifically appropriate to the list -- NO solid state gear is obvious, but try to avoid pushing the envelope in any area.
- 5) LONG lists and estate offerings should be sent to me at:
listown@jackatak.theporch.com
so they may be uploaded to the archives for email or ftp retrieval.
(We are hoping to have a web page up in the future for these files.)

Thanks for your understanding and help in making the boatanchors list have the highest signal to noise on the InterNet.

--

73

Jack, W4KH/Mobile - - - BoatAnchor Mailing List Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"
Sat Aug 1 11:15:00 CDT 1998

From: tbryan@nova.org
Message-Id: <3.0.5.32.19980801133609.0104fc10@mail.nova.org>
Date: Sat, 01 Aug 1998 13:36:09 -0400
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: Hallicrafters SW-500 in poor condition
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All,

I have for sale a Hallicrafters SW-500 in really bad condition. It is not

working. I think it is only good for parts. Price is \$10 plus shipping.

Tom Bryan
tbryan@nova.org

Message-ID: <01e001bdbd78\$dc117a20\$690adfd0@k5jv.kingwoodcable.com>
From: k5jv@von1.com (Lon W. Cottingham)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BC-1004 name plate
Date: Sat, 1 Aug 1998 13:18:45 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings to all,

I am still looking for a usable nameplate for a BC-1004 receiver. This is a military version of the Hammarlund SuperPro (not the SP-600) that has broadcast band coverage on it. I will pay cash, trade, or listen to almost any reasonable suggestion. I will accept a complete parts unit, as long as the nameplate is in reasonable good shape.

73 de Lon Cottingham, K5JV

Message-Id: <3.0.1.32.19980801140447.00693d74@a.crl.com>
Date: Sat, 01 Aug 1998 14:04:47 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Phil Mills <pmills@a.crl.com>
Subject: Need CE-200v info
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Would anyone familiar with this transmitter please send me an e-mail. I need to determine whether I can restore this unit or have to part it out. Cosmetically it is very restorable. Unfortunately, it is missing all tubes....this is only minor in a sense as I have sources for tubes and can determine the costs involved. However, there is some kind of plug-in "audio filter" that was removed. Can anyone tell me what this is and if I have any hope of locating one? Also, one of the crystals is missing. Can anyone tell me what the crystal is for (as in heterodyne or crystal filter) and if it is matched to the other crystals in some way or if I can just order a new one at the correct frequency? Anyone have a schematic? I don't mind buying a manual from a commercial source but I don't want to do that unless I know that this unit can be restored at a reasonable cost.

Any and all help will be appreciated.

thanks & 73,
Phil

Phil Mills AB5TH
pmills@a.crl.com
Friendswood, TX

Message-Id: <3.0.1.32.19980801135841.00692890@a.crl.com>
Date: Sat, 01 Aug 1998 13:58:41 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Phil Mills <pmills@a.crl.com>
Subject: Need HRO (?) info
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At the Austin hamfest, I got an "HRO". It has the distinctive National HRO dial on it. It has a nomenclature plate that says roughly, "Department of Commerce, Civil Aviation Administration" and "PRD"...at least I think it is "PRD". It is bandswitching, covering 200-400kc, and 1.3 to 30 mc. Is this really a PRD? Can anyone help me with a schematic? This is very restorable receiver and I'd like to get it working.

thanks & 73,
Phil

Phil Mills AB5TH
pmills@a.crl.com
Friendswood, TX

Message-Id: <3.0.1.32.19980801135526.00690c60@a.crl.com>
Date: Sat, 01 Aug 1998 13:55:26 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Phil Mills <pmills@a.crl.com>
Subject: Austin, TX hamfest report
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Got back from the Austin, TX hamfest a while ago. It was very pleasant. Most of the BA action was in the tail gate area. Had nice conversations with BA list members Rick Blank, Ron Follmar, Gary Harmon, Dave Stinson, Tom Smith, Gary Youney, and Ray Mack.

Saw:

Beautiful Heath Marauder, I didn't ask price, sold.
Johnson Pacemaker with parts chassis, \$50, sold by the time I saw it.
Johnson T-bolt, Peter Dahl xfmr, needed work, front panel good, \$200, sold.
R-390A, vg condx, \$325, unsold when I left.
Lots of neat junque, some mil surplus stuff.
Heath stuff
Halli SR-160 with speaker, did not ask price
Drake, MN-2000 nice \$200
Drake TR-3, no price.
Johnson Mobile rig, \$75 (first time I've seen one of these things)

I bought:

4 original mil tech manuals for \$5 each, 2 covering the R-390A, on
on the BC-221 freq meter, and one on BC-610 maintenance.
CE 200V in restorable condition less tubes, \$50
HRO something (see next post), very restorable, \$5
BC-221 Freq meter, \$5 (in addition to a nice one I got from Dave Stinson)

Tek 541 Scope \$15
Westinghouse MM-2 antenna multicoupler \$20.
Heath Tunnel dipper with coils, \$3
Misc parts.

Saw absolutely no Collins gear but fair sprinkling of Heath stuff. Of course
lots of SS stuff.

There was a reasonable amount of stuff of BA interest and it was cheap for
once!

Thanks & 73,
Phil
Phil Mills AB5TH
pmills@a.crl.com
Friendswood, TX

Message-ID: <01BDBD5F.1ED72180@d158.dial-4.cmb.ma.ultra.net>
From: "Chuck O'Neal" <coneal@ultranet.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: Vacuum Var. caps
Date: Sat, 1 Aug 1998 15:14:38 -0400
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I have two Jennings 25 - 2500 mmfd at 6 KV vacuum caps

available. These are the ceramic versions with a different drive from what I've seen. Appear to be designed for panel mounting, has 1/4" drive. Excellent condition. \$85 each, shipped, lower 48.

regards,
Chuck...K1KW

Date: Sat, 1 Aug 1998 15:19:57 -0500 (CDT)
Message-Id: <199808012019.PAA26300@mail.ionet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Mike <ac5p@ionet.net>
Subject: Vac Cap Specs? How to test?

I have a variable vacuum capacitor with motor driven gear drive. The nameplate with specs is missing. I can measure the max/min capacitance with no problem. My question is about the vacuum integrity and how to test and verify? I know the capacitance is a function of the area of the meshing cylinders. I dont know what or how to determine the voltage rating? I can guesstimate the spacing between the meshing cylinders as they can be seen when seperated thru the clear glass bottle. My guess is the voltage rating would be a function of this spacing? Assuming the meshing cylinders are in a hard vacuum, what voltage rating could I figure based on this spacing? When a voltage rating is given for a vac cap, does it mean AC or DC or what?

I have access to a both a DC hi-pot and AC PF tester (to 12kv) and a ac dielectric test set to 50Kv. Wondering which to use and how much stress to put on it? My preference would be to use the ac dielectric test set. Anybody out there actually tested vac caps with rated KV?
Mike

Message-Id: <199808012139.0AA26097@mail3.sirius.com>
From: "Jim Carrington" <jcall@sirius.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS Hickock Traceometer /RCA Channalyst (Livermore/Foothill swaps PU only)
Date: Sat, 1 Aug 1998 14:43:46 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I have a Hickock Traceometer (similar to the RCA Channalyst but with meters in place of eye tubes) that I wish to sell . It was used to test each stage of a superhet or monitor them all simultaneously. Both the Tracemometer and Channalyst were recently the subject of the antique radio section of "Popular Electronics" if you want to read more.
I have manual and a new set of probes . I dont know if it works but

cosmetically I would rate it an 8.5 to 9 . I'm selling it because I need the room and its a project I will probably not get to. \$75.

I also have an RCA Channalyst with manual , also untested which I will also sell. Cosmetically I would rate it an 8 - 9 - \$60.

I dont have time to pack or ship these units but I can deliver to Livermore or Foothill swaps.

73's
Jim Carrington

Date: Sat, 1 Aug 1998 16:50:34 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
cc: BA <boatanchors@sco.ThePorch.com>
Subject: Re: HEAVY-DUTY BA AC POWER CIRCUIT QUESTION
Message-ID: <Pine.SUN.3.96.980731174103.20287A-100000@indy3>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, John!

The simple, safe way to do this is to have an electrician install a double-pole, 220V breaker in the main box, sized for whatever the existing wires will handle (#12 wire, 20A or #14, 15A is typical). It would replace the existing seperate breakers and feed the existing pair of hot wires. (Handy to mark one at each end with a strip of red tape, but not usually required). Then *you* can turn that breaker off and install a small "load center" in your shack, fed by those wires; buy one that has fuses or breakers for 220 and 110 loads.

(A little old-fashioned fusebox with screw-in plug fuses for four 110V branch circuits and plug-in holders for pairs of cartridge fuses for at least one 220V load would be ideal. You may have to add an *insulated* "neutral bar" to land the neutrals on--not a big deal but combined ground and neutral busses aren't kosher on a load center installed in this manner)

The breakers or fuses are there to protect *the* *wire,* not your equipment, and should be sized accordingly. (And for "110," read "120," likewise "240" for "220," I started out in an old-fashioned mood).

(Color-coding for power wire in the US: typically 220 stuff with two live wires is black for one, red for the other; 208 3-phase is generally black, red and blue. Neutral is *always* white, ground is green or [in romex, etc.] bare. 480 3-phase, conventially they use brown, yellow and orange, and if you run any yourself, please write me into your will as it is unforgiving stuff. Anyway, the only *major* rule is, the neutral is

white and the ground is green--all the rest is by convention rather than statute or Code in most cases. You find a funny color, figure it is live, you'll live longer that way).

(Hot's on the left, cold's on the right and wastewater runs downhill, there's nothing to it, right? <grin> The work of an electrician is much like that of a plumber: the basics are easy but the details are very, very tricky and will hurt you if you get 'em wrong).

I am not an electrician; this advice is based on some years of practical experience with power distribution in professional applications but regulatory provisions unique to your location may apply. Most certified electricians are happy to talk such things over, if you have a clear idea of what you want to do and they'll get some work out of it.

73,
--Bobbi

(PS to everyone--no updates on the Mysterious Work Stuff, primarily on the principle of not saying unless there's something *good* to say. The mfr. is installing this stuff and it's not ours to mess with 'til they make it work. Presently I'm just hoping the blue flash won't be too bright or loud nor the coolant leaks too severe. And that's all I'm sayin'--had to edit this paragraph four times to even get this far!)

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Date: Sat, 1 Aug 1998 19:04:20 -0400 (EDT)
From: cswiger <cswiger@wilma.widomaker.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: UNID exciter
Message-ID: <Pine.BSF.3.96.980801190233.19770A-100000@wilma.widomaker.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Got to the local junque shop today.

Just want to run this by and see if anyone recognizes it, can get it fairly cheap but probably doesn't work: what looks like an exciter, rack mount, maybe military - absolutely NO id markings other than
"This unit has been modified as per TMC kit: 116"

Has 17 bands, 2.0-4.27, 4.27-6.27, 6.27-8.27 etc.etc.
up to 30.27-32.27
MF (?) & carrier insert controls,

A cluster on the left marked "LSB" with a 4-position switch: mike-ch1-ch2-off, gain and vox gain, Freq dial with two concentric disks in the center, switches below it marked xmtr on/off, exciter on/off and pwr on/off, a meter to the right of the dial; A cluster on the right USB with another 4-position switch, gain and vox controls,

Below the on/off switches is output tuning, mf tuning and an output control, a meter switch: cal, lsb, usb, mf, rf; on the upper right is an exciter lamp and an oven lamp. One control has a clear plexiglass outer rim.

This thing /appears/ to have no pa or power supply, (dunno for sure yet) has a 3 pin mike connector on the front panel, looks to be very well built.

Tube complement: 12AU7, 6U8, 6CL6, 5814, 0A2, 6AB4, some snubby plug in solid states marked CR101 etc, 12AT7, etc.

Any clues appreciated - may chance it anyhow.

It was piled underneath (but no functional relation to) a unit marked Collins frequency generator type 786E-1.

Also spotted today an 'American Beauty' solder iron temp control station, cloth pwr cord, a temp adjust underneath and an ac socket - appears to be a thermostat ? Very clean and on sale for six bucks.

Chuck
kb4new
cswiger@widomaker.com

Message-ID: <005201bdbda7\$c6d3cf80\$51c7d8cc@km3g.cts.com>
From: "Lane C. Zeitler" <km3g@cts.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Looking for nice Drake SPR-4
Date: Sat, 1 Aug 1998 16:54:50 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

State condx, accessories, manual, shipped price to San Diego 92139

Lane
KM3G

Message-ID: <35C3BAC7.7AA6@dia.reno.nv.us>
Date: Sat, 01 Aug 1998 18:03:04 -0700
From: Jack Antonio <dia@dia.reno.nv.us>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RBO info needed
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good afternoon,

Need some information on a Navy RBO receiver. Made by E.H. Scott and obviously an entertainment or morale type receiver, but does it have a civilian number, is it related or equal to one of the series of SLR receivers?

Where I'm going with this is: Looking for a manual or copy for the RBO. I picked one of these up today(carefully---oh my aching back) and even though it doesn't look like it will be too hard to get it running, I would like to get some service info on it.

Thanks and 73

Jack Antonio WA7DIA

Message-ID: <35C38B6D.6F77@fl.net.au>
Date: Sun, 02 Aug 1998 08:41:01 +1100
From: John Wright <dxer@fl.net.au>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted Manual
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi John Wright here in Australia. For a good friend looking for a manual or booklet on the Drake TR4. Will pay \$\$\$\$\$. copy or original we will be grateful. John

Message-ID: <35C3C41B.5C2C5E16@mindspring.com>
Date: Sat, 01 Aug 1998 21:42:51 -0400

From: Steve Rohrer <srohrer@mindspring.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: UNID exciter
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sounds very much like a TMC SSB exciter, known to the Navy as a URA-28.
This unit
does require an external power supply. Output is in the milliwatt
range. Fun to play
with!

Take a look at:
<http://www.qsl.net/ka4rsz/ura28.htm>
to confirm my suspicions.

Steve - KA4RSZ

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>
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> absolutely NO id markings other than
> "This unit has been modified as per TMC kit: 116"

Date: Sat, 1 Aug 1998 17:47:21 -0700 (PDT)
Message-Id: <2.2.16.19980801174155.0db77d08@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: Transformer Repair?

A bit of probing and testing today revealed the sad news that the power
transformer in the RP-6 power supply for my newly acquired RS-6 "spy radio"
set has multiple shorted secondary windings. Thus I write to request advice
on transformer repair.

Would Peter Dahl be the one to approach for this project? If so I'd be
interested in hearing from those who have had experience with his service.
Contact information would also be helpful.

Are there any other transformer repair shops I should consider?

And finally, does anyone by chance have a working RP-6 they'd care to part with?

Regards,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

End of BOATANCHORS Digest 2149
